



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 16] नई दिल्ली, शनिवार, अप्रैल 21, 1990, (वैशाख 1 1912)  
No. 16] NEW DELHI, SATURDAY, APRIL 21, 1990 (VAISAKHA 1, 1912)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों के सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 21st April 1990

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Bombay-400 013.

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Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

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Telegraphic address "PATENTOFIC".

1—27 GI/90

Patent Office Branch,  
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The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office).  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharaya Jagadish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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पेटेंट कार्यालय

एकसूत्र तथा अभिकल्प

कलकत्ता, दिनांक 21 अप्रैल 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा,  
टोडी हस्टेट,  
तीसरा तल, लोअर परगले (पश्चिम),  
बम्बई-400 013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र  
एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं  
दावरा और नगर हवेली ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश  
राज्य क्षेत्रों एवं संघ शासित क्षेत्र  
चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय शाखा,  
61, वालाजाह रोड,  
मद्रास-600 002.

आंध्र प्रदेश, कर्नाटक, केरल, तामिलनाडु राज्य क्षेत्र  
एवं संघ शासित क्षेत्र पाण्डिचेरी,  
लक्षद्वीप, मिनिगाय तथा  
एमिनिदिवि द्वीप ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन,  
5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020.  
भारत का अवशेष क्षेत्र ।

तार पता—“पेटेंट्स” ।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में  
अपीक्षित सभी आवेदन पत्र, सूचनाएं, दिक्कत या अना प्रत्येक  
पेटेंट कार्यालय के क्षेत्र उपयुक्त कार्यालय में ही प्राप्त किए  
जायेंगे ।

शुल्क :—शुल्कों की अदायगी या तो नकद की जायेगी अथवा  
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा  
ड्राफ्ट आदेश या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान  
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट  
अथवा चेक द्वारा की जा सकती है ।

## CORRIGENDUM

In the Gazette of India, Part-III Section 2 dated 24th February, 1990 under the heading "PATENTS SEALED", read as 163851 instead of 164851.

## THE PATENT OFFICE

Calcutta, the 21st April 1990

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent brackets are the dates  
claimed Under Section 135, of the Patents Act, 1970.

The 6th March 1990

195/Cal/90. (1) Saroj Kumar Mitra, (2) Hardev Prasad Sinha, (3) N. V. S. Krishna, (4) Kennath N. Das, (5) Biswanath Ghosh, (6) Hemand Madhusudan Nerurkar, (7) Dr. Tridivesh Mukherjee and (8) Tata Iron & Steel Co. Ltd. Process for the preparation of Bauxite based low cement castables.

196/Cal/90. The Babcock & Wilcox Company. Improved Power supply for totem pole power switches.  
(Divisional dated 25th August, 1987).

The 7th March 1990

197/Cal/90. Hoechst A. G. Process for the preparation of water-soluble phthalocyanine dyestuffs.

(Divisional dated 6th January, 1987).

198/Cal/90. Hoechst A. G. Process for the preparation of water-soluble phthalocyanine dyestuffs.

(Divisional dated 6th January, 1987).

The 8th March 1990

199/?Cal/90. Karl Fischer Industrieanlagen GmbH. Apparatus for spinning thermoplastic melts.

200/Cal/90. RCA Licensing Corporation. Cathode display systems.

(Divisional dated 19th August, 1987).

The 9th March 1990

201/Cal/90. Siemens Aktiengesellschaft. Method for operation of a power circuit breaker.

202/Cal/90. Massey-Ferguson Services N. V. Cane harvester cleaning system.

The 12th March 1990

203/Cal/90. E. I. Du Pont De Nemours & Company. Yarn finish applicator.

204/Cal/90. Vista Chemical Company. Surfactant compositions.

205/Cal/90. Blumco Detergents Limited. A method of de-inking waste paper material.

[Convention dated 15th March, 1989; U.K. No. 8905942.2].

The 13th March 1990

206/Cal/90. Dipak Kumar Nandy. Multiple wick candle.

207/Cal/90. Dipak Kumar Nandy. Regulator of a candle lamp.

208/Cal/90. Poltaysky Meditsinsky Stomatologichersky Institut, USSR. Disposable injection syringe.

209/Cal/90. Lanxide Technology Co. Ltd. Method for producing self supporting ceramic composite structures.

(Divisional dated 9th September, 1987).

210/Cal/90. Radhe Shyam Pandey. Novel sole of a hawai slipper.

The 14th March 1990

211/Cal/90. Mcneil-PPC, Inc. Method and apparatus for compiling deformable, substantially cylindrical bodies, particularly tampons and for packing them.

212/Cal/90. Yokogawa Electric Corporation. Duplex computer system.

213/Cal/90. Ewald Pickhard. Injection device for once only use.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 5th March 1990

163/Mas/90. Indian Institute of Technology. Direct-in-diallers for decadic-pulsing telephone system.

164/Mas/90. Audco India Limited. Bidirectional fire safe valve.

165/Mas/90. ITI Equatorial Satcom Ltd. "Integrated voice-mail system".

166/Mas/90. Caterpillar Inc. Fuel combustion system and method of operation for an otto-cycle internal combustion engine.

The 6th March 1990

167/Mas/90. BASF Lacke + Farben Aktiengesellschaft. Preparation of heat-curable self bonding enamel solutions having high bonding strength, and their use.

The 7th March 1990

168/Mas/90. Rhone-Poulenc Chimie. Modified polymers based on graft polyester and their preparation.

169/Mas/90. Rhone-Poulenc Films. Composite polyester films, their production and use.

170/Mas/90. Henkel Kommanditgesellschaft auf Aktien. A surfactant mixture based on -sulfo-fatty acid methyl ester salts, a process for its production and its use.

The 8th March 1990

171/Mas/90. Micropack Ltd. An additive plating method of manufacturing high aspect ratio plated-through-hole printed circuit boards with soldermask on bare copper conductors and a printed circuit board manufactured thereby.

172/Mas/90. Maschinenfabrik Rieter AG. Ring spinning Machine and method of operating a ring spinning machine.

173/Mas/90. BASF Aktiengesellschaft. Process for manufacturing azo dyes. (Divisional to Patent Application No. 349/MAS/86).

The 9th March 1990

174/Mas/90. Sobrevich Societe de brevets industriels-Etablissement. Frictional thread feed device.

175/Mas/90. Ammonia Casale S.A. & Umberto Zardi. High-performance heat exchanger.

176/Mas/90. Ammonia Casale S.A. & Umberto Zardi. Process and reactor for exothermic heterogeneous synthesis with several catalytic beds and heat exchange.

177/Mas/90. Ammonia Casale S.A. & Umberto Zardi. System for modifying in situ reactors for the synthesis of ammonia.

#### PATENT SEALED

153287	164216	164238	165022	165031	165050	165051
165053	165054	165061	165062	165067	165071	165072
165073	165076	165078	165089	165094	165095	165096
165097	165098	165099	165102	165103	165104	165105
165106	165107	165108	165112	165116	165124	165125
165126	165128	165136	165137	165142	165145	165155
165156	165157	165158	165173	165174	165175	165176
165179	165206	165210	665211	165212	165213	165216
165217.						

CAL = 12.

MAS = 27.

DEL = 14.

BOM = 4.

#### AMENDMENT PROCEEDING UNDER SECTION 57

Proposed amendments under Section 57 in respect of Patent No. 165408 (554/MAS/85) as advertised in the Gazette of India dated 28-10-1989 have been allowed.

#### RENEWAL FEES PAID

144027	146061	149350	149554	149565	149585	150091
150323	150639	150887	150939	150959	151257	151447
151453	151669	151750	151876	152195	152732	152910
152952	153148	153218	153499	153539	153650	153916
154019	154586	155190	155198	155329	155436	155799
155872	156077	156123	156447	156478	156680	156705
156790	157101	157341	157454	157456	157683	157738
158107	158209	158265	158377	158740	158795	158949
158988	159034	159268	159845	161084	161086	161249
161300	161406	161407	162198	162409	162823	162902
162924	163595	163695	163892	164045	164446	164863
164869	164870	164947	164986	165029	165048	165049
165055	165087.					

#### RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 158218 dated the 2nd August 1983 made by Societe Nationale Elf Aquitaine (Production) on the 25th July 1989 and notified in the Gazette of India, Part III, Section 2 dated the 2nd December 1989 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 161936 dated the 21st May 1985 made by Union Carbide India Limited on the 25th July 1989 and notified in the Gazette of India, Part III, Section 2 dated the 2nd December 1989 has been allowed and the said Patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 162067 dated the 21st May 1985 made by Union Carbide India Limited on the 25th July 1989 and notified in the Gazette of India, Part III, Section 2 dated the 2nd December 1989 has been allowed and the said patent restored.

### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classifications."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदन में से किसी पर पेटेंट अनुदान का विराध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट निगम 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हों के भीतर कभी भी नियंत्रक, एक्सच को ऐसे विराध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य; उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8 किरण संकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग-पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपरेखा (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों; को साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता, द्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी वसूली पर की जा सकती है। विनिर्देश का पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नोच वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 में गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

CLASS : 32-A<sub>2</sub>.

166361

Int. Cl. : C 09 b 19/00.

PROCESS FOR THE PREPARATION OF WATER-SOLUBLE TRIPHENDIOXAZINE COMPOUNDS.

Applicant : HOECHST AKTIENGESellschaft OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

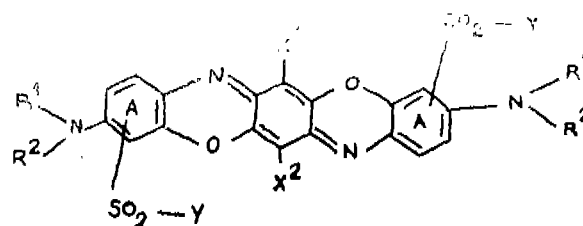
Inventors : 1. HERMANN FUCHS, 2. HARTMUT SPRINGER, 3. GUNTHER SCHWAIGER.

Application No. 519/Cal/85 filed July 15, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 18 Claims

A process for the preparation of a triphendioxazine compound corresponding to the formula (1) of the accompanying drawings in which :



Formula I

R<sup>1</sup> is a hydrogen atom or an alkyl group with 1 to 8 carbon atoms which can be substituted except a sulfo or carboxy group, or is a cycloalkyl group with 5 to 8 carbon atoms with optionally 1 to 3 methyl groups and/or 1 amino group, alkanoyl-amino group with 2 to 5 carbon atoms of benzoyl-amino group as substituents, or is the phenyl radical which can be substituted by 1, 2 or 3 substituents from the group comprising halogen, alkyl with 1 to 4 carbon atoms, alkyloxy with 1 to 4 carbon atoms, nitro, a group of the formula SO<sub>2</sub>-Y; where Y; has the meaning given below, alkyl-amino with an alkyl radical with 1 to 4 carbon atoms, dialkylamino with alkyl radicals with in each case 1 to 4 carbon atoms, alkanoylamino with 2 to 5 carbon atoms and benzoylamino, or is a naphthyl radical which can be substituted by a group of the formula -SO<sub>2</sub>-Y;

R<sup>2</sup> has one of the meanings given for R<sup>1</sup>, R<sup>2</sup> being identical to R<sup>1</sup> or different from R<sup>1</sup>, or

R<sup>1</sup> and R<sup>2</sup>, together with the nitrogen atom and one, two or three alkylene radicals with 1 to 5 carbon atoms and/or one or two further heteroatoms, such as nitrogen, oxygen or sulfur atoms, from a 5-membered heterocyclic radical, it being possible for the two groups -NR<sup>1</sup>R<sup>2</sup> to have meanings which are identical to one another or different from one another;

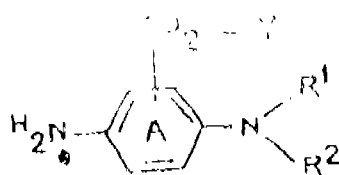
the two benzene nuclei A can be substituted by 1 or 2 substituents from the group comprising alkyl with 1 to 6 carbon atoms, alkoxy with 1 to 5 carbon atoms, halogen, carboxy and sulfo, it being possible for the substitutions in the two benzene nuclei A to be identical to one another or different from one another;

$X^1$  is a hydrogen atom, a halogen atom, a cycloalkyl group, an aralkyloxy group, an alkoxy group with 1 to 4 carbon atoms, an aryloxy group, an alkyl group with 1 to 4 carbon atoms, an aryl group, an aralkyl group, a cyano group, a carboxy group, a carbalkoxy group with 2 to 5 carbon atoms, an N-alkylcarbamoyl group or N, N-dialkyl-carbamoyl group with alkyl radicals with in each case 1 to 4 carbon atoms, an N-aryl-carbamoyl group, an alkanoylamino group with 2 to 5 carbon atoms or an aroylamino group, the aryl radicals in these substituents preferably being phenyl radicals which can be further substituted by 1 or 2 substituents from the group comprising halogen, nitro, alkyl with 1 to 4 carbon atoms, alkoxy with 1 to 4 carbon atoms, carboxy and sulfo;

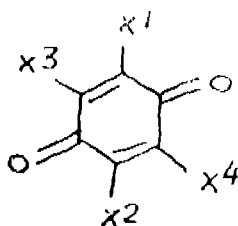
$X^2$  is identical to  $X^1$  or different from  $X^1$  and has one of the meanings given for  $X^1$ ;

the groups  $-SO_2-Y$  can have different meanings to one another or, preferably, the same meanings as one another;

Y is the vinyl group or an ethyl group which contains, in the  $\beta$ -position, a substituent which can be eliminated by an alkali, or is the  $\beta$ -hydroxyethyl group, at least one of the two radicals Y, preferably both, necessarily representing the vinyl group or the  $\beta$ -substituted ethyl group mentioned, in particular the  $\beta$ -sulfoethyl group, if one or both of  $R^1$  and/or  $R^2$  together do not have or have only one  $\beta$ -sulfoethylsulfonyl, or vinylsulfonyl group as substituents;



Formula 3

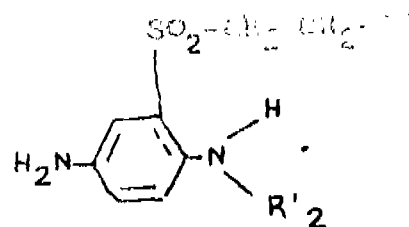


Formula 4

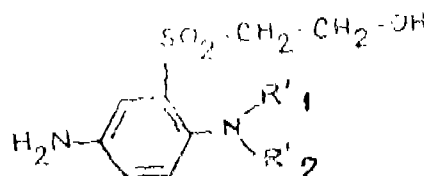
$Y$  is the vinyl group, the  $\beta$ -hydroxyethyl group or an ethyl group which is substituted in the  $\beta$ -position by a substituent which can be eliminated by an alkali;

the compound of formula (1) necessarily contains at least one and preferably at least two groups of the sulfo and sulfato groups which compound of the formula (1) can contain which comprises first reacting an amino compound of the general formula (3) in which A,  $R^1$ ,  $R^2$  and Y have the meanings given above, except that the benzene nucleus A is not substituted in one of the ortho-positions relative to the primary amino group mentioned, in twice the molar amount with a 1, 4-benzoquinone compound of the general formula (4) in which  $X^1$  and  $X^2$  have the abovementioned meanings and  $X^3$  and  $X^4$  are identical to one another or

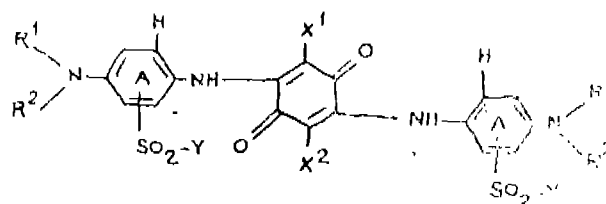
different from one another and each is a hydrogen atom, an alkoxy group with 1 to 4 carbon atoms, a phenoxy group or a halogen atom, at a temperature



Formula (3a)



Formula (3b)



Formula 5

between 20 and 100°C and in the presence of an acid-binding agent, to give the intermediate of the general formula (5) in which  $R^1$ ,  $R^2$ , A, Y,  $X^1$  and  $X^2$  are defined as above, and cyclizing this intermediate by reaction with sulfuric acid in the presence of an oxidizing agent, such as sulfur trioxide, ammonium persulfate, an alkali metal persulfate, sodium perborate, sodium peroxy-disulfate and potassium peroxydisulfate.

Compl. specn. 73 pages.

Drgs. 5 sheets

CLASS : 98-E, 141-A, 141-C & 141-E.

166362

Int. Cl. : C 22 b 1/02, 1/20 & 1/26.

PROCESS OF THERMALLY TREATING LUMP OR AGGLOMERATED MATERIALS ON A TRAVELLING GRATE.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, WEST GERMANY.

Inventor : I. ALOIS KILIAN.

Application No. 614/Ca/85 filed August 26, 1985.

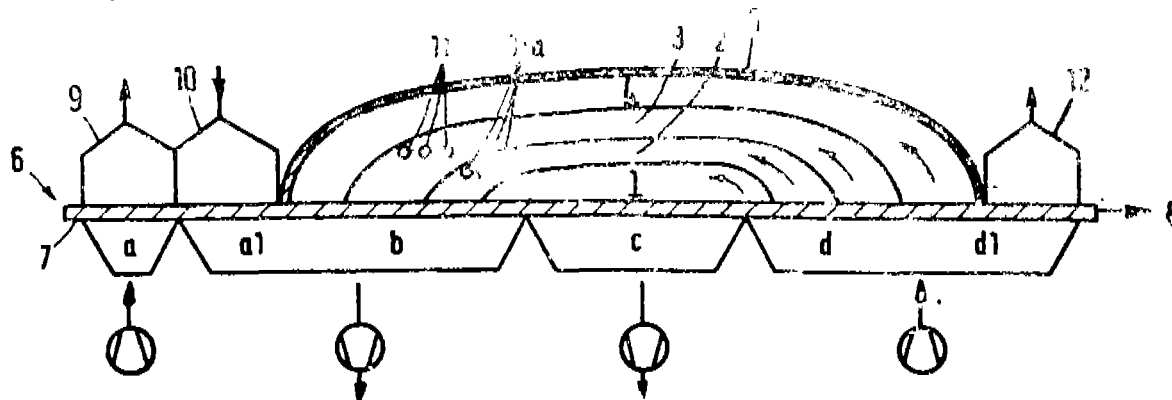
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

Process of thermally treating lump or agglomerated materials such as lime stones, ores, pellets, cementitious and refractory materials on a travelling grate by passing hot gases through the material bed, wherein hot gases are passed in a heat treatment zone with a downwardly directed flow of the hot gases through the material bed, cooling gases containing

oxygen are passed in a cooling zone with an upwardly directed flow of the cooling gases through the material bed, and the cooling gases which have been heated are passed under a continuous gas hood from the cooling zone into the heat treatment zone, characterized in that the velocity of flow of the cooling gases which have been heated up under the continuous gas hood over the upper course of the travelling grate is set by the pressure at which the cooling gases are pressed into the cooling zone, and the underpressure at which the hot gases are sucked out from the heat treatment zone, to be so

high that the vertical uplift exerts practically no influence so that parallel current paths of layers of the gases, which flow over each other and parallel to each other and extend over the width of the gas hood, are produced with different temperatures under the gas hood, fuel is introduced into individual current paths, individuals current paths are heated to different higher temperatures and are subsequently passed in the heat treatment zone downwardly through the material bed.



Compl. specn. 28 pages.

Drgs. 6 sheets

CLASS : 150-G.

166363

Int. Cl. : E 04 g 7/00; 17/06.

#### STRUCTURAL ELEMENT CONNECTING JOINTS.

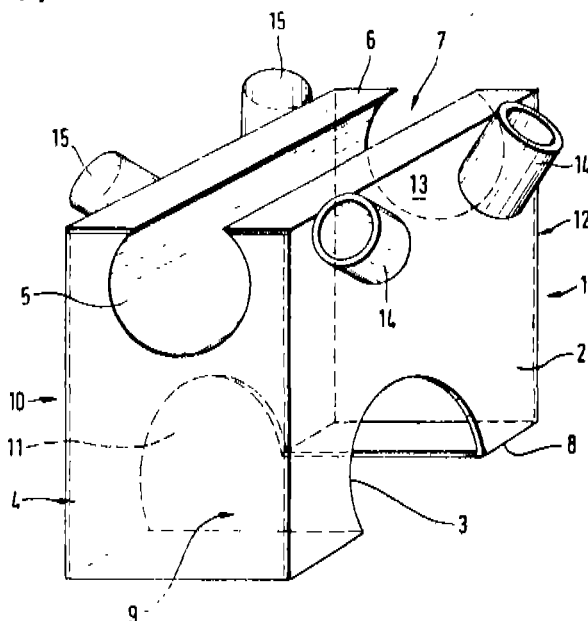
Applicant & Inventor : URIEL SCHLEISNER, OF 68—70 BAR-KOCHBA STREET, PETACH TIQVA, ISRAEL.

Application No. 754/Cal/1985 filed October 22, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A structural element connecting joint, consisting of hollow prism or cylinder which at its sides normal to one another has openings at same or different sides which are at different levels and permit the passage of elongated structural elements, spigot like sleeves or flattened arms extending from a side or sides of the joint at an angle from the respective side of the joint.



Compl. specn. 13 pages.

Drgs. 14 sheets

CLASS : 63-I.

166364

Int. Cl. : H 02 h 7/06.

#### IMPROVEMENTS IN OR RELATING TO VAR GENERATOR HAVING CONTROLLED DISCHARGE OF THYRISTOR SWITCHED CAPACITORS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WEISTINGHOUSE BUILDING, GATWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : LASZIO GYUGYI.

Application No. 756/Cal/1985 filed October 22, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims

A VAR generator for supplying reactive power to an AC electrical system comprising :

capacitive reactive means inter-connectable with the electrical system for supplying the reactive power thereto during a controllable interval of time;

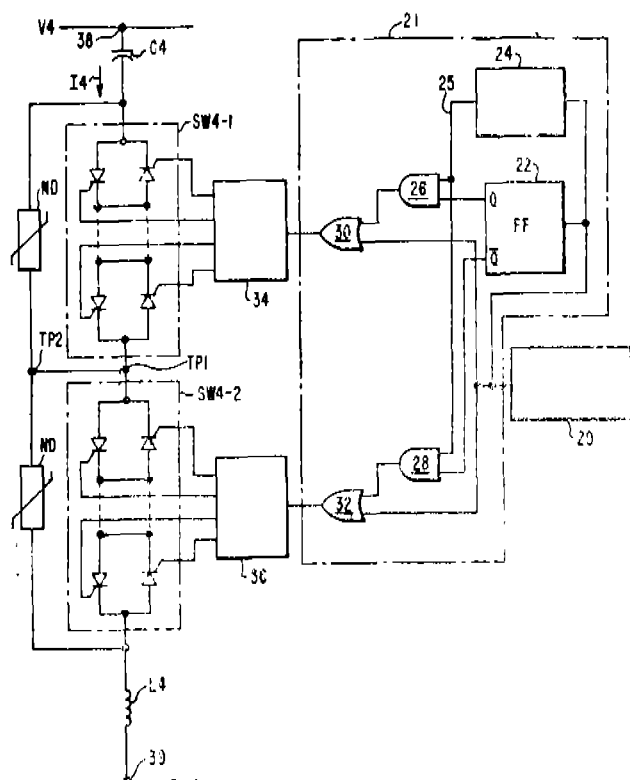
at least two controllable bidirectional thyristor switch means interconnected in series circuit relationship with said capacitive means in reactive circuit relationship with the electrical system during said interval of time, non-linear clamping means for limiting over-voltage in the VAR generator connected in parallel with each of the switch means;

each clamping means having a predetermined breakover-voltage at and above which current conduction may occur with the total breakover voltage being approximately equal to the sum of the breakover voltages of each of the clamping means;

the voltage rating of the thyristor switch is equal to or greater than the breakover voltage of the non-linear clamping means connect as in parallel therewith;

control means interconnected with each of the switch means for selectively keeping at least one but not all of the switch means in an ON state while turning the remaining switch means to the OFF state during a period of time subsequent to the initiation of said OFF state so that the clamping means in parallel with the

switch means that are in the OFF state conducts the capacitive reactive discharge current therethrough as long as the voltage condition exceeds the break-over voltage thereof with the switch means that are in the ON state shunting the discharge current around the clamping means connected in parallel therewith thereby limiting the voltage across the capacitive reactive means to a value approximately equal to that of the sum of the breakover voltages of the conducting clamping means.



Compl. specn. 25 pages.

Drsgs. 5 sheets

CLASS : 157-D<sub>g</sub>.

166365

Int. Cl. : E 01 b 27/00.

#### TAMPING UNIT FOR TRACK TAMPING MACHINES.

Applicant : FRANZ PLASSER BAHNBAUMASCHINEN-INDUSTRIEGESELLSCHAFT M. B. H., A-1010 WIEN, JOHANNESGASSE 3, AUSTRIA.

Inventor : ING. JOSEF THEURER.

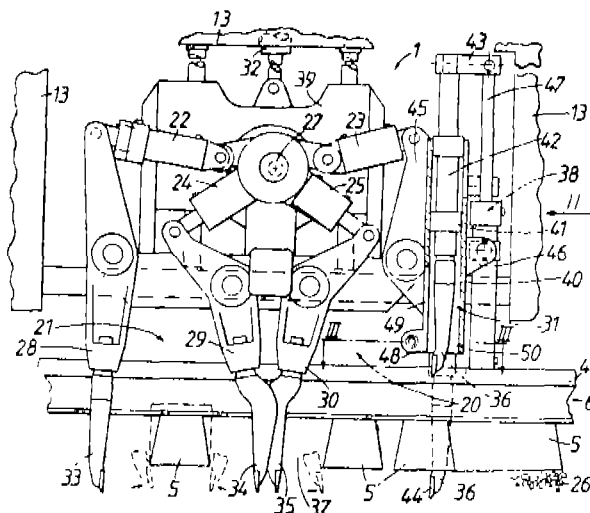
Application No. 932/Cal/1985 filed December 27, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A tamping unit for track tamping machines for tamping the ballast beneath two immediately adjacent sleepers of a railway track, comprising at least two pairs of tamping tools or groups of paired tamping tools which are arranged immediately adjacent one another longitudinally of the machine on a vertically displaceable tool carrying frame and of which the tamping tools squeezable towards one another in pairs longitudinally of the machine by a squeezing drive are connected to a vibration drive and to a vertical displaceable drive for penetration together into the ballast bed at the longitudinal sides of the sleepers, characterized in that only the tamping

tools (31, 76)—arranged on the outside longitudinally of the machine—of at least one pair (20, 71) of tamping tools or only all the tamping tools (31, 76)—arranged on the outside—of the two pairs (20, 71) of tamping tools adjacent one another transversely of the track and designed to penetrate into the ballast bed on the left and/or right of a rail are designed to be disengaged or rather lowered or raised independently of their common vertical displaceability and are connected to an additional drive (38,80) for vertical displacement.



Compl. specn. 25 pages.

Drsgs. 2 sheets

CLASS : 129-G.

166366

Int. Cl. : B 23 q 1/00.

#### MACHINE SLIDE BEARING ASSEMBLY.

Applicant : DETROTT EDGE TOOL COMPANY, OF 6570 EAST NEVADA AVENUE, DETROIT, MICHIGAN 48234, U. S. A.

Inventors : DAMICO FRANK.

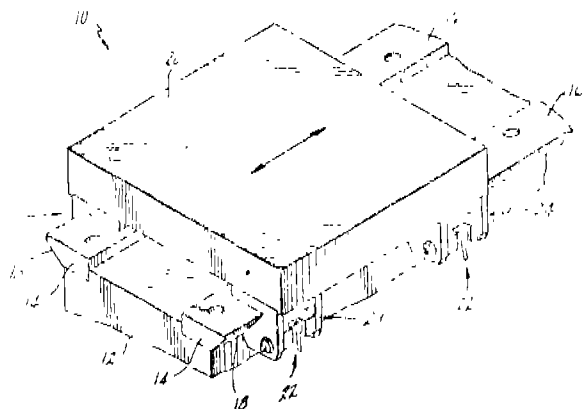
Application No. 933/Cal/1985 filed December 27, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A bearing assembly of a machine slide 20 mounted for recti-linear movement along parallel spaced ways on the machine (10), each way having a pair of spaced flat guide surfaces, a bracket (24) adapted to be fixedly mounted on the said machine slide (20), a pair of spaced anti-friction bearing cartridges (38, 62), mounted on said bracket (24), characterized by the provision of a plurality of rollers (41) in said cartridges defining flat bearing surfaces adapted for engagement, one with each guide surfaces (16, 18) on one way (14), the axes of the said roller (41) extending perpendicular to the path of travel of the slide (20), said bracket (24) having a pair of spaced axially aligned bores thereon, the axis of which extends lengthwise accurately parallel to the path of travel of the slide (20), a shaft (46) rotatably supported in said bores (44), said shaft (46) having a cylindrical portion (52) non-rotatably mounted thereon and extending between the confronting ends of said bores (44), an adjusting block (60) rotatably supported on said cylindrical portion (52) for tilting movement about an axis parallel to the path of travel of the slide (20), one of said cartridges (38, 62) being mounted on said adjusting block (60) and being displaceable toward and away from the axis of said bores (44) in response to rotation of the shaft (46) in opposite directions, and a

lock (48, 78) for locking the shaft in a rotatively adjusted position.



Compl. specn. 18 pages

Drgs. 3 sheets

CLASS : 144-B.

166367

Int. Cl. : B 29 c 13/00; 27/00.

AN IMPROVED METHOD FOR COATING TRANSPARENT SURFACES MADE OF GLASS OR SYNTHETIC MATERIAL FOR PRODUCING COATED SURFACES HAVING DEMIRRORING LAYERS THEREON.

Applicant : GFO GESELLSCHAFT FÜR OBERFLÄCHENTECHNIK M. B. H., OF KLARENBERGSTRASSE 79, D-7070 SCHWABISCH Gmund, WEST GERMANY.

Inventors : (1) WERNER ALDINGER, (2) RICHARD POLIMANN, (3) EDITH EISENMENGER.

Application No. 72/Cal/1986 filed January 31, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

An improved method of coating transparent surface made of glass or synthetic materials for producing coated surfaces having demirroring layers thereon, by a coating agent, made of thermally hardenable lacquer and a fine grain silicic acid based pigment characterized in that coating is carried out by using a mixture of (a) a polysiloxane lacquer and (b) a pigment made of mixture of a thermally produced silicic acid and hydrophobized thermally produced silicic acid, to form a thin layer and the said surface, which is then subjected to heat treatment at temperature of 80° to 120°C and wherein the silicic acids are present in amounts of 0.5 to 15% by weight in the lacquer in total and wherein the ratio of silicic acid to polysiloxane lacquer is preferably 1 : 3 to 1 : 6 parts by weight.

Compl. specn. 11 pages.

Drg. Nil

CLASS 32-F<sub>2</sub>; 55-E<sub>1</sub>.

166368

Int. Cl. : A 61 k 27/00; C 07 c 97/00.

PROCESS FOR THE PREPARATION OF ALL-CIS-1, 3, 5-TRIAMINO-2, 4, 6-CYCLOHEXANTRIOL DERIVATIVES.

Applicant : LABORATORIEN HAUSMANN AG. OF RECHENSTRASSE 37, CH-9001, ST. GALLEN, SWITZERLAND.

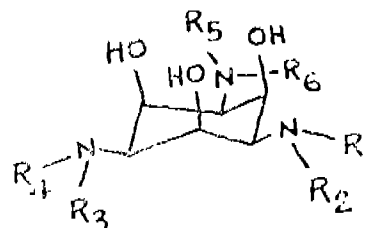
Inventors (1) WALTER SCHNEIDER, (2) ISIDOR ERNI, (3) HANS KASPAR HEGETSCHWEILER.

Application No. 73/Cal/1986 filed January 31, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

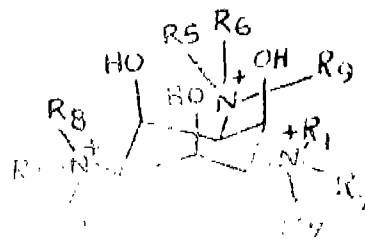
#### 25 Claims

Process for the preparation of all-cis-1, 3, 5-triamino 2, 4, 6-cyclohexanetriol and its alkylated derivatives corresponding to the general formula I of the accompanying drawings



Formula I

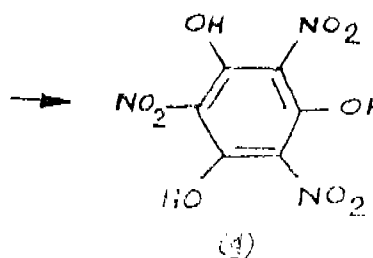
Where the symbols  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$  and  $R_6$  are identical or different and represent hydrogen atoms, alkyl groups or -CO-alkyl groups, wherein the alkyl in the alkyl or -CO-alkyl groups has 1 to 18 carbon atoms and the alkyl and -CO-alkyl groups may contain, independently of one another, one or more identical or different functional groups, and at least one of the groups  $R_1$  to  $R_6$  is one of the abovementioned unsubstituted or substituted alkyl groups or -CO-alkyl groups, and their salts with pharmacologically commonly used inorganic or organic acids and their quaternary ammonium salts corresponding to the general formula II, IIa or IIb with the pharmaceutically suitable anions.



Formula II

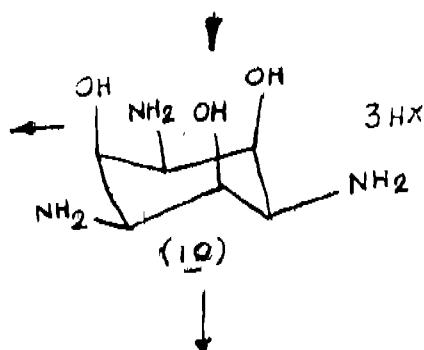
wherein  $R_1$  to  $R_6$  and  $R_7$ ,  $R_8$  and  $R_9$  denote, independently of one another, the above defined unsubstituted or substituted alkyl groups or -CO-alkyl groups, with exclusion of the compound wherein  $R_1 = R_8 = R_9 = \text{COCH}_3$  and  $R_2 = R_4 = R_6 = \text{H}$ , which comprises catalytically hydrogenating in a manner as herein described :

(a) trinitrophenol of Formula (4) in reaction scheme A or a monoalkali metal salt thereof wherein;

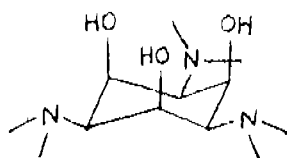




- (b) the product obtained in the form of the free amine formula 1 or its salt (Formula 10) is optionally alkylated, which if desired is;



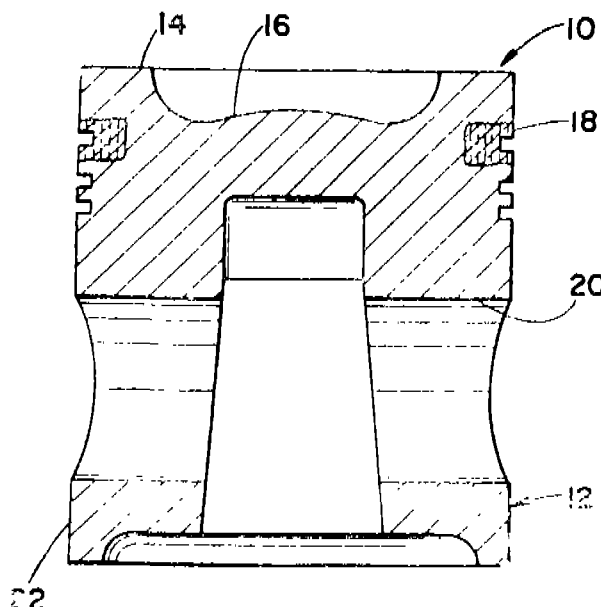
- (c) quaternized to the corresponding mono-, di- or tri-quaternary compound (formula 11 or formula 19).



Compl. specn. 44 pages.

Drgs. 8 sheets

achieving a highly reliable bond between the body of the article and the preform insert member.



Compl. specn. 13 pages.

Drgs. 3 sheets

CLASS : 116-G.

166370

Int. Cl. : B 65 g 35/00.

CONVEYING DEVICE.

Applicant : BINDER & CO. AKTIENGESellschaft,  
POSTFACH 8, A-8200 GLEISDORF, AUSTRIA.

Inventor : ING. JOHANN SCHÖBER.

Application No. 152/Cal/1986 filed February 28, 1986.

Appropriate Office for Opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

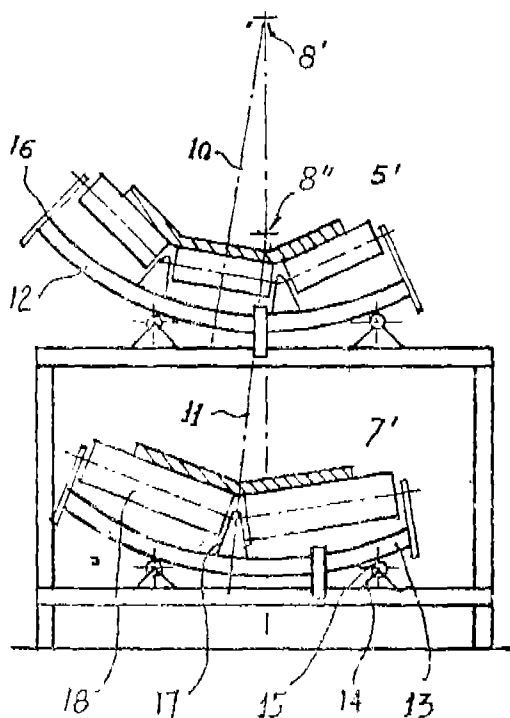
8 Claims

Conveying device, especially a conveyor belt having a curvature path on a horizontal plane, in which the said conveyor belt receiving the goods to be conveyed is held in a frame having at least one roller capable of rotation about an axis at right angles to the direction of conveying and is held in a manner capable of swinging about an axis running parallel to the belt characterised in that the said roller stations (5, 5', 77) are provided in the region of curvature in an immovable manner in that direction of rotation and are held in a swinging manner about an axis running in the direction of conveying or above (8) the path of conveying so that the path of swinging of these roller stations are raised with respect of

9 Claims

A cast metal article such as composite engine piston comprising a body made from a metal taken from the group consisting of aluminium, magnesium, zinc and alloys thereof and an reinforcing insert characterized in that said insert is a preform insert member of a ceramic fiber material for increasing resistance to thermal fatigue and improving wear characteristics and yield strength of the article, said preform insert member of ceramic fiber material being adapted for

the centre point of the curvature of the path of conveying in direction at right angles to the direction of conveying.



Compl. specn. 9 pages.

Drgs. 2 sheets

CLASS : 55-D<sub>2</sub>.

166371

Int. Cl. : A 01 n 65/00.

**A METHOD OF MAKING AN AGRICULTURALLY USEFUL INOCULANT OF DORMANT BACTERIA.**

Applicant : AGRACEETUS OF 8520 UNIVERSITY GREEN, MIDDLETON, WISCONSIN 53562, UNITED STATES OF AMERICA.

Inventor : 1. ALAN PAAU.

Application No. 301/Cal/86 filed April 17, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method for making an agriculturally useful inoculant of dormant bacteria as herein described, comprising the steps of :

- (a) maintaining a concentrated suspension of bacteria, substantially separated from its culture medium, at a temperature in the range of about 0—30°C for a period in the range of about 0—96 hours under aseptic conditions :
- (b) mixing the bacterial suspension with a porous, chemically inert granular carrier such that the weight ratio of dry carrier to concentrated bacterial suspension is in the range of about 0.5 to 1.5; and
- (c) air drying the bacteria-carrier mixture between 22 and 30°C for a period of about 2—10 days under aseptic conditions to get the inoculant of the said dormant bacteria which may be coated on an agricultural produce like legume seed.

Compl. specn. 16 pages.

Drg. Nil

CLASS :

166372

Int. Cl. : C 22 b 21/06.

**ELECTROLYSIS TANK SUPERSTRUCTURE WITH INTERMEDIATE GANTRY, FOR THE PRODUCTION OF ALUMINIUM.**

Applicant : ALUMINIUM PECHINEY, OF 23, RUE BALZAC, 75008 PARIS, FRANCE.

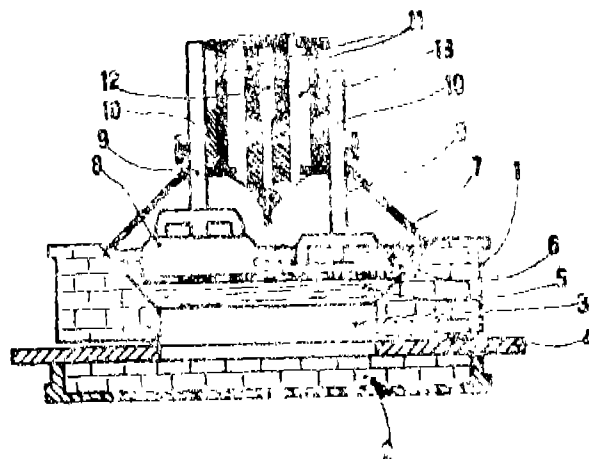
Inventors : 1. CHRISTIAN DUVAL, 2. BERNARD LANGON, 3. MICHEL LEROY, 4. ALAIN NOIZET.

Application No. 339/Cal/86 filed April 30, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A superstructure for a tank for the production of aluminium using the Hall-Heroult process by the electrolysis of alumina in molten cryolite, the tank being formed by a rigid metal heat-insulated casing of elongate parallelepipedic shape, the two ends of which are referred to as heads, and a superstructure formed by at least one beam disposed along the long length of the casing, supporting in particular the anodic frame structure, the current input members coming from the preceding tank in the series and the anodes and said beam resting at its two ends on supports disposed at the two head ends of the tank, said superstructure being characterised in that each rigid beam (11) is supported on at least one intermediate gantry provided with legs.



Compl. specn. 13 pages.

Drgs. 3 sheets

CLASS :

166373

Int. Cl. : D 01 f 6/28.

**A METHOD FOR FORMING ARTICLES SUCH AS ACRYLIC POLYMERS, FIBERS AND FABRICS.**

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor : 1. STEVEN PETER PARDINI.

Application No. 402/Cal/86 filed May 30, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 19 Claims

A method for forming articles such as acrylic polymers, fibers and fabrics and having imparted therein non-fugitive antimicrobial activity, effective in reducing viable micro-organisms, exhibiting a shake flask percent reduction of *klebsiella* of 70 to 100% characterized in that said article is formed by known methods from polymeric acrylonitrile composition of :

- a. at least 85% by weight acrylonitrile,
- b. upto 13% by weight of a neutral ethylenically unsaturated monomer, and
- c. from 0.1 to 10% by weight of a protonated amine containing compound such as herein described.

where said antimicrobial activity is inherent in the polymeric acrylonitrile composition.

Compl. specn. 18 pages.

Drg. Nil

CLASS 131-B<sub>2</sub>.

166374

Int. Cl. : E 21 b 1/00.

### DEVICE FOR MAKING HOLES IN SOIL.

Applicant : INSTITUT GORNOGO DELA SIBIRSKOGO OTDELENIYA AKADEMII NAUK SSSR, OF NOVOSIBIRSK, KRASNYY PROSPEKT, 54, USSR.

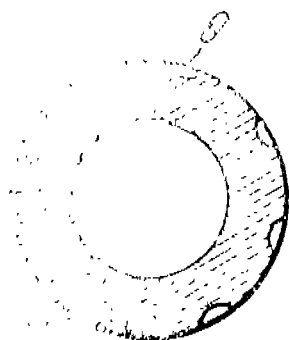
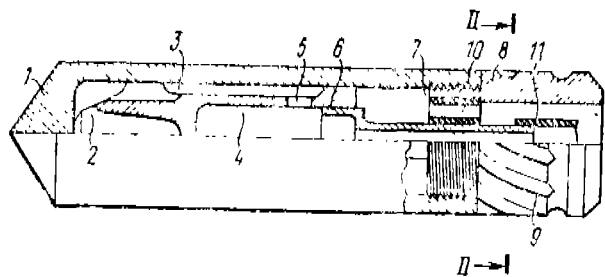
Inventors : 1. ALEXANDR DMITRIEVICH KOSTYLEV, 2. ALEXEI DANILOVICH TERSKOV, 3. KONSTANTIN BORISOVICH SKACHKOV, 4. VLADIMIR DMITRIEVICH PLAVSKIKH.

Application No. 439/Cal/86 filed June 12, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A device for making holes in soil, comprising a body which internally accommodates a percussion member adapted for reciprocating motion and forms in the body a front chamber communicated through ports of the percussion member with a rear chamber formed by a space of the percussion member and an air distributing sleeve associated through an elastic element with a threaded bushing mounted in a tail portion of the body, characterised in that the threaded bushing external surface has at least two grooves arranged diametrically oppositely to each other and at an angle as herein defined to the axis of the device, the direction of inclination of the grooves being coincident with the hand of thread of the threaded bushing.



Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 145-B & E<sub>1</sub>.

166375

Int. Cl. : D 21 d 5/00; D 21 c 9/06, 9/08.

### A PRESSURE SCREEN APPARATUS.

Applicant : BELOIT CORPORATION, OF P.O. BOX 350, BELOIT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventor : J. PETER EDMOND LEBLANC.

Application No. 445/Cal/86 filed June 16, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

Pressure screen apparatus comprising :

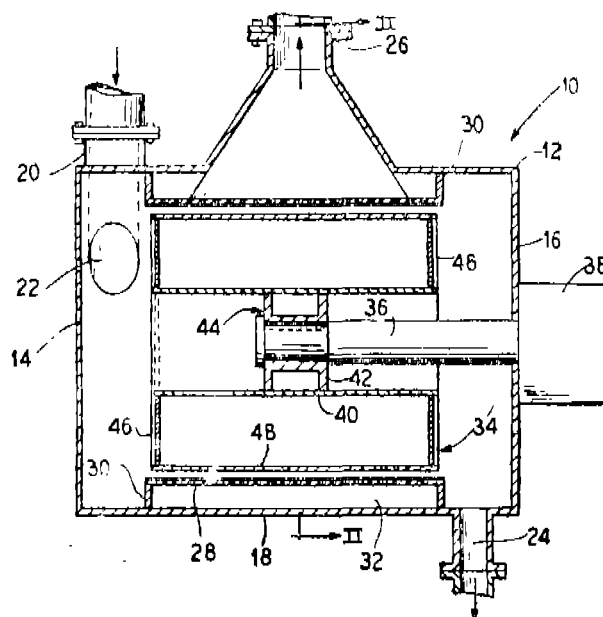
a housing including an inlet for receiving a slurry of paper stock an accepts outlet and a rejects outlet;

a hollow cylindrical screen in said housing including a profiled inner surface and an outer surface;

mounting means mounting said screen to the interior of said housing and defining an accepts chamber about said screen which is in communication with said inlet communicates with said accepts outlet via said screen and said accepts chamber;

drive means including a rotary output; and

a rotor connected to said rotary output and mounted within and spaced from said screen between said inlet and said rejects outlet, characterised in that the rotor comprises an elongate generally cylindrical body including atleast a pair of elongate semisylinders tachially offset from the another, and a corresponding number of members connecting said semicylinders and each said member defining a blunt lead edge with respect to the direction of rotation, in said semicylinder.



Compl. specn. 17 pages.

Drgs. 2 sheets

CLASS : 190-A; 177-D.

166376

Int. Cl. : F 02 b 1/00;

F 01 k 3/00.

A POWER PLANT INCLUDING A GAS TURBINE AND A STEAM TURBINE.

Applicant : KRAFTWEAR UNION AKTIENGESELLSCHAFT, OF 433 MULHEIM (RUHR), WIESENSTER, 35, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. KONRAD GOEBEL, 2. HANS-CHRIS TRANKENSCHUH.

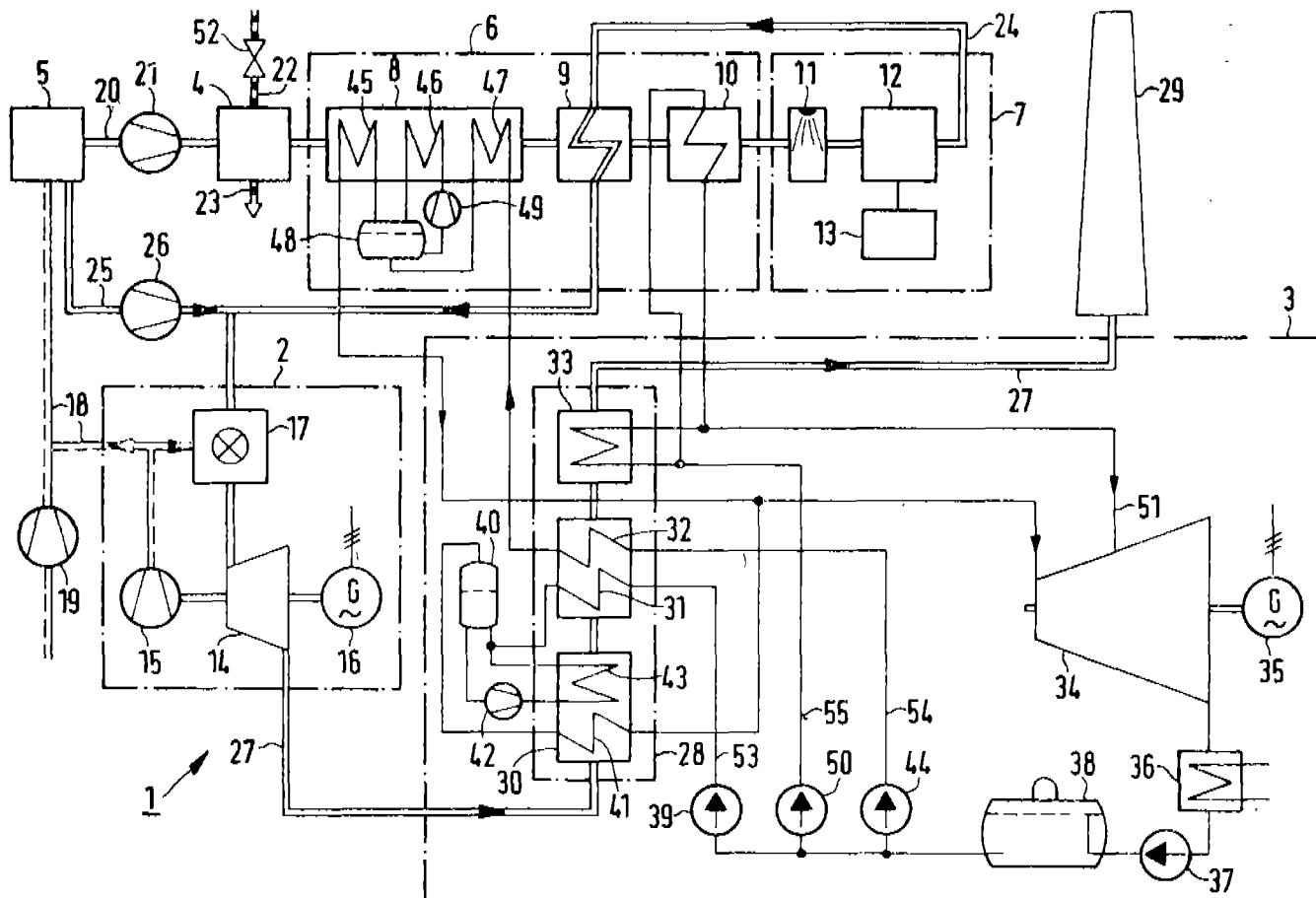
Application No. 514/Cal/86 filed July 10, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 6 Claims

A power plant including a coal gasifier which supplies raw gas which passes through first high-pressure steam generating

means, then through a raw gas/purified gas heat exchanger and then through a first low-pressure steam generating means to a gas purification plant from which purified gas flows through said heat exchanger to a combustion chamber of a gas turbine, characterised in that the gas turbine exhaust gas passing through heating means comprises both second high-pressure steam generating means and a second low-pressure steam generating means situated downstream of the latter, considering the exhaust gas flow, the steam from both said high-pressure steam generating means being supplied to steam turbine means through high-pressure steam inlet means and the steam from both said low-pressure steam generating means through low-pressure steam inlet means.



Compl. specn. 12 pages.

Drg. 1 sheet

CLASS : 64 A.

166377

5 Claims

Int. Cl. : H 01 h 85/10, 85/36.

A FUSE LINK ESPECIALLY APPLICABLE TO A LOW-VOLTAGE, HIGH-CURRENT SAFETY FUSE.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : 1. WALTER BILLER, 2. ALBERT SEGER.

Application No. 534/Cal/86 filed July 10, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A fuse link, in particular for low voltage heavy duty fuses, called NH-fuses comprising :

- a working fuse element and an elongate indicator elements in a housing containing quenching sand;
- said elongate indicator element being provided electrically in parallel above said working fuse element bridging between contact members outside the housing;

the elongate indicator element being clamped between an indicator spring at a cover member and another plate closure placed opposite to said cover member such that the elongate indicator element keeps down the free end of the said indicator spring which flies into a position on the cover member after thorough melting of the elongate indicator member to give an optical indication;

wherein the cover member with the indicating spring at its inner side is provided with a sealing layer which is pricked through by a tool and reaches upto the elongate indicator element in the region of the penetrated opening in the sealing layer;

the said sealing layer being provided closely surrounding the elongate indicator element for the width between the said elongate indicator element and said sealing layer to be less than the grain size of the quenching sand.

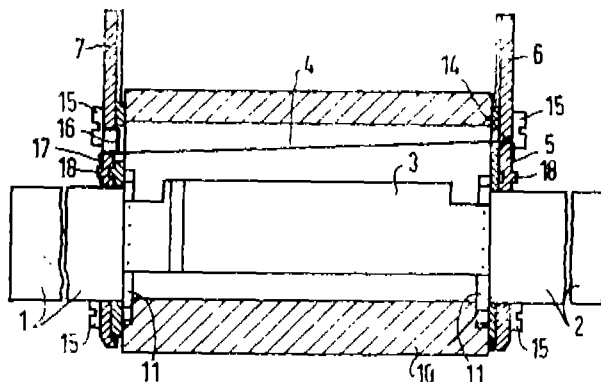


Fig 1

Compl. specn. 8 pages.

Drg 1 sheet

work positions thereof, thereby enabling parallel work control.

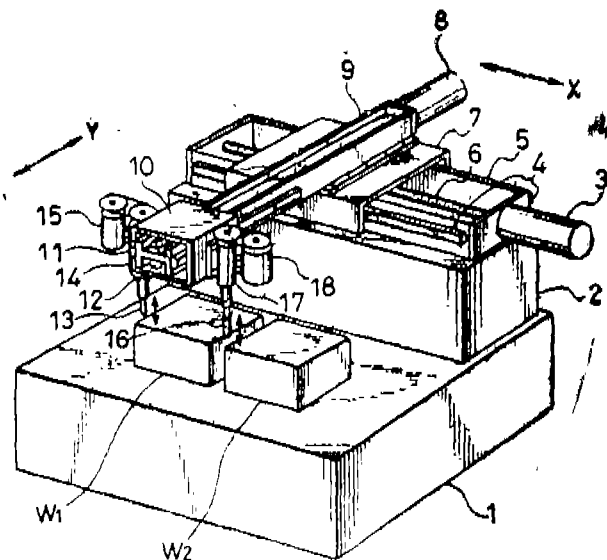


Fig 1

Compl. specn. 18 pages.

Drgs. 6 sheets

CLASS : 166378

Int. Cl. : B 23b 41/00.

A MACHINE TOOL FOR DRILLING OF JOBS AND WORK ON DRILLED JOBS SIMULTANEOUSLY, IN PARALLEL MANNER.

Applicant : HINO JIDOSHA KOGYO KABUSHIKI KAISHA 1-1, HINODAI 3-CHOME, HINO-SHI, TOKYO, JAPAN.

Inventors : 1. TAKAO TANIZAWA, 2. MICHIHARU HARADA, 3. TORU WATANABE.

Application No. 585/Cal/86 filed July 31, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A machine tool which can perform drilling of a non-drilled work and another working of an already drilled work simultaneously and in a parallel manner comprising :

a slide table having at least a pair of units fixed thereon with a predetermined distance therebetween, said pair of units comprising a drilling unit and another work unit, said drilling unit and said another work unit being placeable to oppose a work which is not drilled and a work which has already been drilled by said drilling unit, respectively;

first axial drive means for moving said slide table along a first axis;

second axial drive means for moving said slide table along a second axis perpendicular to the first axis; and

control means for controlling said first and second axial drive means so as to simultaneously align said drilling unit and said another work unit with corresponding

CLASS : 58-C.

166379

Int. Cl. : E 06 b 7/00; 9/00.

IMPROVED LOUVER ASSEMBLY IN AN AIR CONDITIONING APPARATUS.

Applicant : CARRIER CORPORATION, AT CARRIER PARKWAY, P.O. BOX 4800, SYRACUSE, NEW YORK 13221, U. S. A.

Inventors : THEODORE SEELEY BOLTON AND ROBERT JAMES WITWELL.

Application No. 587/Cal/1986 filed August 01, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

An improved louver assembly in an air conditioning apparatus of the type having an air discharge opening with a plurality of louvers adjustably disposed therein for directing the flow of discharging air comprising :

a plurality of louvers with each having a mounting pin on each end thereof, said mounting pins being sized and positioned so as to be slideably receivable and pivotably mountable on support slots in support members to suspend said louvers in mounted positions between said side support members, said support members being formed of;

a pair of laterally spaced support members partially defining the air discharge opening, and having a plurality of longitudinally spaced rearwardly extending slots formed at the forward edges thereof;

a pair of retainer bars disposed, in rearwardly abutting relationship with said mounting pins on each said louver and means for securing said retainer bars to

said support members to maintain said louvers in their

mounted positions.

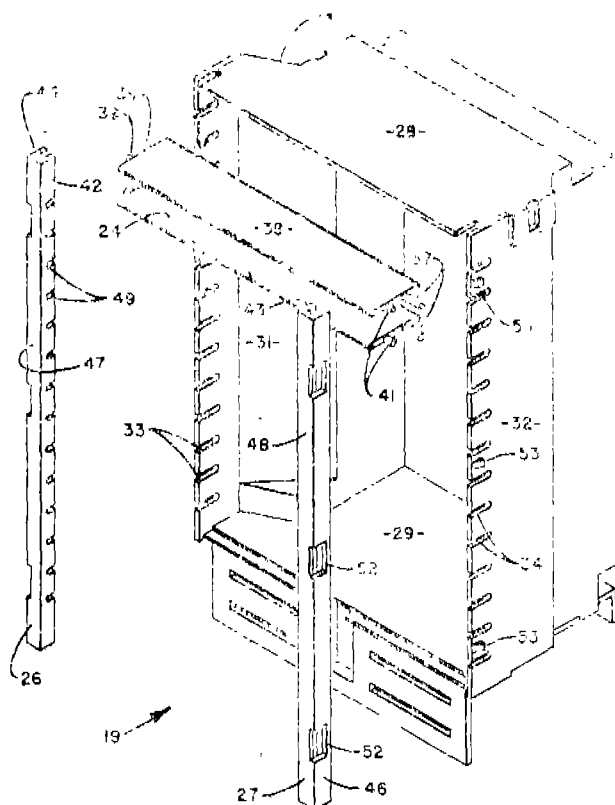


Fig. 2

CLASS : 136 E.

166380

Int. Cl. : B 29G 29/00;

B 29 D 1/00.

**PROCESS FOR MELT FABRICATING TOUGH POLY-ETHYLENE TEREPHTHALATE ARTICLES WITH LOW GAS AND ORGANIC LIQUID PERMEABILITY.**

Applicant : E. I. DU PONT DEMOURS AND COMPANY, AT WILMINGTON, DELWARE, UNITED STATES OF AMERICA.

Inventors PALLATHERI MANACKAL SUBRAMANIAN.

Application No. 589/Cal/1986 filed August 01, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 25 Claims

In a process for melt-fabricating articles from blents of 45—95 weight percent of polyethylene terphthalate with 5—55 weight percent of a toughening polymer selected from :

- copolymers of at least 70 weight of an -olefin having 2—5 carbon atoms with at most 30 weight % of an unsaturated carboxylic acid;
- copolymers of ethylene with an -unsaturated carboxylic acid and a third ethylenically unsaturated monomer, their respective weight ratios in the polymer being 40—95%, 0.5—20% and 10—40%;
- ionomers obtained by a complete or partial neutralization of copolymer of paragraph (a) or (b) with zinc or magnesium ions; and

- an E/X/Y copolymer, where the monomers E, X, and Y are as follows :

E is ethylene and comprises 40—90 weight percent of the ethylene copolymer;

Compl. specn. 14 pages.

Drgs. 3 sheets

X is a carboxylic ester represented by the formula  $R_2O$ ,



where  $R_1$  is an alkyl group with 2—8 carbon atoms; and

$R_2$  is H,  $CH_3$ , or  $C_2H_5$ ; and X comprises 10—40 weight percent of the E/X/Y copolymer; and

Y is selected from the group consisting of glycidyl methacrylate and glycidyl acrylate, and Y comprises 0.5—20 weight percent of the E/X/Y copolymer.

said blents containing 0—10% based on the total polymer weight of a finely ground, known non-nucleating filler;

the improvement comprising conducting the melt-fabrication and/or subjecting the just fabricated product at a temperature lower than 100°C to minimize polyethylene terephthalate crystallization,

whereby a tough article having low permeability to gases and to organic liquids selected from the class consisting of aliphatic and aromatic hydrocarbons, ketones, alcohols, ethers, and esters is obtained.

Compl. specn. 19 pages.

Drg. Nil

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 161434. Shah Engineering, Dayasagar, Bhayandar (E), Dist. Thane 401105, State of Maharashtra, India, a Partnership firm. "Slicer, Divider & Server for Cake, Pudding, Jelly and other Deserts". 15th September, 1989.

Class 1. No. 161520. Inalsa Limited, A Company incorporated under the Companies Act, 19—Kasturba Gandhi Marg, New Delhi-110001. India. An Indian Company. "Toaster". 12th October, 1989.

Class 1. No. 161626. Earl Bihari Private Limited, (a company incorporated under the Indian Companies Act) at 148-B, St. Cyril's Road, Bandra, Bombay-400 050, State of Maharashtra, India. "Ironing Board". 27th November, 1989.

Class 1. No. 161764. Nelson Type Foundry Private Ltd., of 34, Sami Pillai Street, Choolai, Madras-600112, Tamil Nadu, India, an Indian Private Ltd. Co., "Tamil Type Fount". 1st January, 1990.

Class 3. No. 161423. Raj Kumar Taela, M/s. Mickey Toys, 931, Kucha Pati Ram, Bazar Sita Ram Delhi-110006 (India) Indian National. "Toy Machine-gun". 13th September, 1989.

Class 3. No. 161430. Inesla Limited. An Indian Company, 19-Kasturba Gandhi Marg, New Delhi-110001. India. "Vaccine Carrier". 13th September, 1989.

Class 3. No. 161430. Inesla Limited, An Indian Company, 19-Kasturba Gandhi Marg, New Delhi-110001. India. "Vaccine Day Carrier". 13th September, 1989.

Class 3. No. 161433. Ranjeet Singh Jaswal, an Indian Citizen 404 Acropolis, Lokhandwala Complex Andheri

West, Bombay-400 058, Maharashtra, India. "A SEAL". 15th September, 1989.

Class 3. No. 161435. Shah Engineering, Dayasagar, Bhayandar (E), Dist. Thane 401105, State of Maharashtra, India, a Partnership firm. "Clip Stapler". 15th September, 1989.

Class 3. No. 161536. M/s. Ray Plastiques Pvt. Ltd., of Seksaria Indl. Estate, Chincholi Bunder Road, Off. S. V. Road, Malad, Bombay-400 064, Maharashtra, India, Indian Company. "COMB". 16th October, 1989.

Class 3. No. 161706. Larsen and Toubro Limited, of L&T House, Ballard Estate, Bombay-400038, Maharashtra, India, an Indian company. "a Container". 15th December, 1989.

Class 3. No. 161706. Larsen and Toubro Limited, of L&T House, Ballard Estate, Bombay-400038, Maharashtra, India, an Indian Company. "an Electric Switch". 15th December, 1989.

Class 3. No. 161773. Gunter Obermann, A West German National, Steinstra Be 4 a, D-4993 Rahden, West Germany. "Sport Ball". 8th January, 1990.

Class 8. No. 161406. AMAR CARPETS, Aurai-221301, Distt. Vanarasi, U. P., State, India, an Indian Partnership Concern "Carpet". 12th September, 1989.

Class 10. No. 161763. Api Polymers (India) Ltd., J-17, Udyog Nagar, Nangloi, Delhi-110041, India, an Indian Company duly incorporated under the Indian Companies Act. "Shoe". 29th December, 1989.

*Copyright Extended for the Second Period of five years.*

No. 155539.

Class-4.

R. A. ACHARYA,  
Controller General of Patents,  
Designs and Trade Marks

